

Sanitary Circulators

MARKET SECTORS
SANITARY LIGHT COMMERCIAL.

APPLICATIONS

- Circulation of sanitary hot water in high flow/high head installations.

TLCHN Series



SPECIFICATIONS

PUMP

- **Flow rate:** up to 12 m³/h.
- **Head:** up to 12 m.
- **Temperature of pumped liquid:** +2°C ÷ +110°C (recommended up to 65°C). Avoid condensation and ice formation.
- **Maximum operating pressure:** 10 bar (PN 10).
- **Impeller:** made of composite material.
- **Wear ring:** ceramic.

MOTOR

- Wet rotor type, with bearings lubricated by the pumped liquid. Axial and radial bearings made of ceramic.
- Single-phase 230 V 50 Hz power supply. Terminal box axially integrated in the motor.
- Three speed hand selector motor.
- **Insulation class** 180 (H).
- **Protection class** IP 44.

CONSTRUCTION CHARACTERISTICS

- Electric circulator pumps for sanitary hot water circulation, at a recommended maximum temperature of 65°C, maximum hardness of 25° f (14° dH) and maximum viscosity of 10 mm²/s.
- Stainless steel pump body with 1" 1/4 and 1" 1/2 threaded connections.
- According to EN standards 60335-1, 60335-2-51, 55014-1, 55014-2.

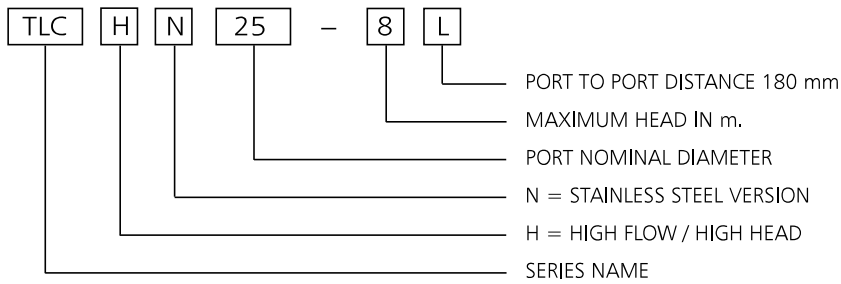
ACCESSORIES

- Pipe unions.
- Insulation shell.

INSTALLATION

- Suitable for installation in horizontal or vertical piping, in any position provided that motor axis is horizontal.

TLCHN SERIES IDENTIFICATION CODE



EXAMPLE : TLCHN 25-8L

TLC series circulator, high flow/head H version, stainless steel N version, port nominal diameter = 25, max head= 8 m, with port to port distance of 180 mm.

TABLE OF MATERIALS

PART	MATERIAL
Pump body	Stainless steel
Impeller	Composite material
Shaft	Ceramics
Inner jacket	Stainless steel
Wear ring	Ceramics
Bearings	Ceramics
Gaskets	EPDM

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Regulations (EC) n. 641/2009 and (EU) n. 622/2012 – Annex I – point 2 (Product information requirements)

- Energy efficiency index: note not applicable to these products.
- "The benchmark for most efficient circulators is $EI \leq 0,20$ ": note not applicable to these products.
- Information relevant for disassembly, recycling or disposal at end-of-life: observe the current laws and by-laws governing sorted waste disposal. Consult the product operating manual.
- Information for circulators specifically designed to potable water uses: "This circulator is suitable for drinking water only".

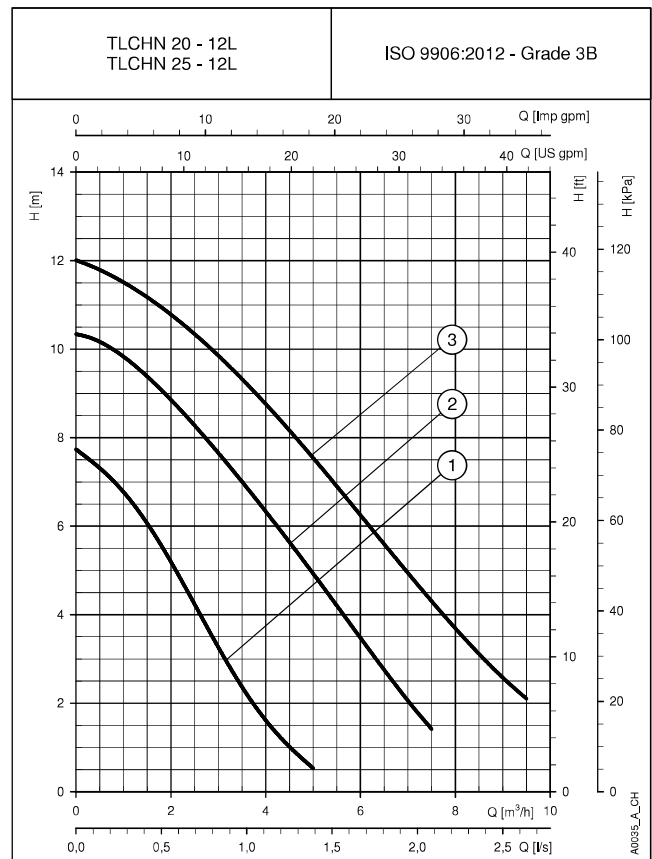
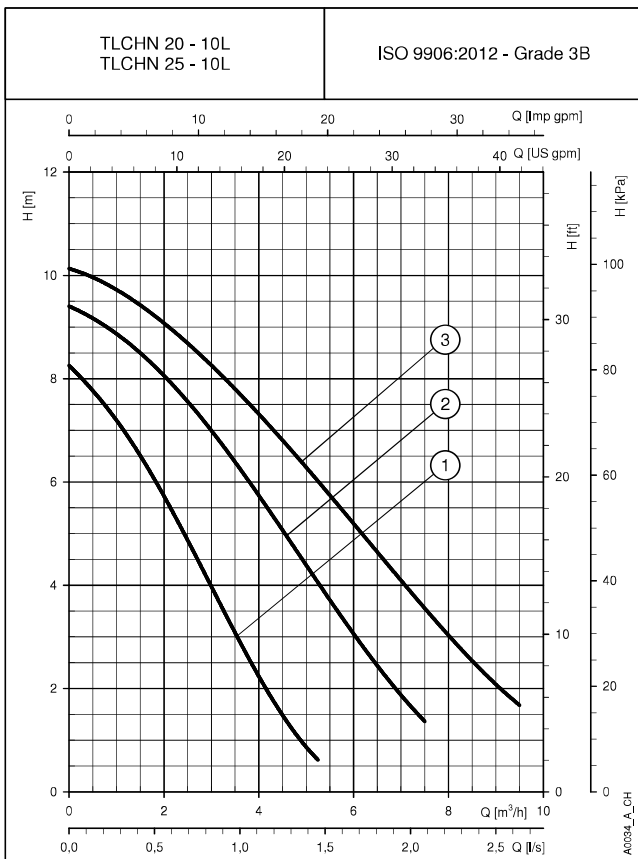
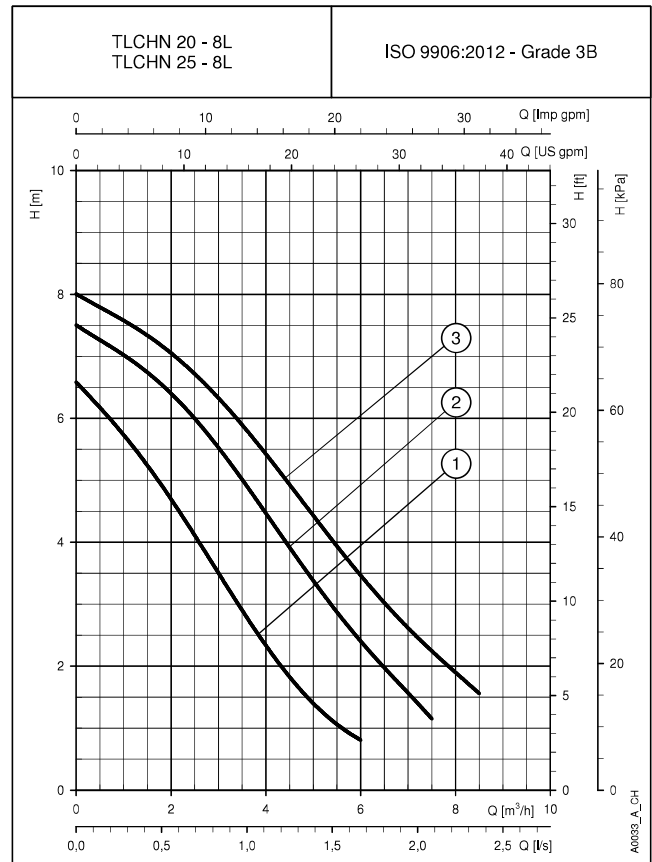
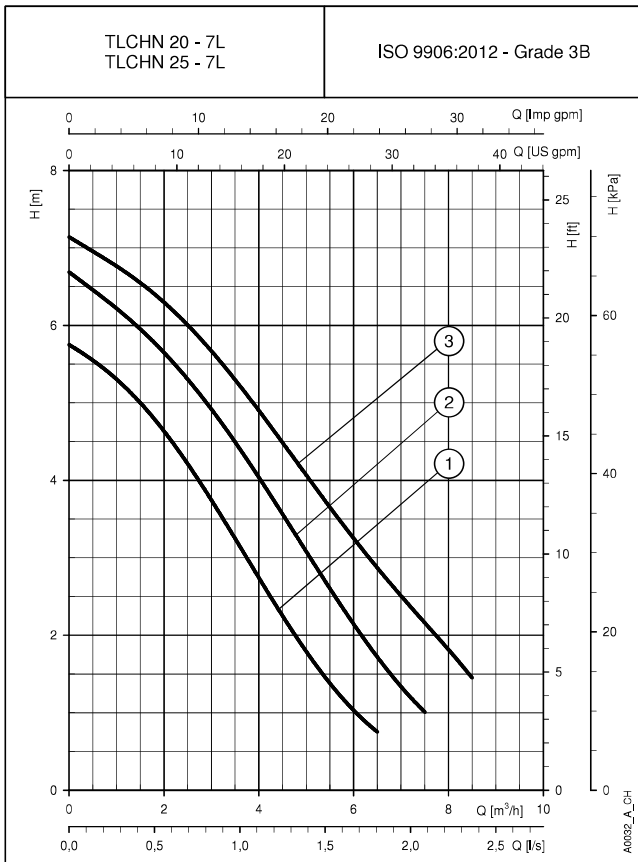
TLCHN SERIES HYDRAULIC PERFORMANCE TABLE

PUMP TYPE	MAXIMUM ABSORBED POWER W	MAXIMUM ABSORBED CURRENT A	CAPACITOR		SPEED	Q = DELIVERY								
						l/s 0	0,3	0,7	1,0	1,3	1,7	2,0	2,3	2,7
						m ³ /h 0	1,2	2,4	3,6	4,8	6,0	7,2	8,4	9,6
230V 50Hz			μ F	V		H = TOTAL HEAD METRES COLUMN OF WATER								
TLCHN 20-7L	220	1,03	8,0	400	1	5,8	5,2	4,3	3,1	2,0	1,0			
TLCHN 25-7L	228	1,04			2	6,7	6,1	5,4	4,4	3,3	2,1	1,2		
	260	1,13			3	7,1	6,7	6,1	5,2	4,2	3,3	2,4	1,5	
TLCHN 20-8L	260	1,23	8,0	400	1	6,6	5,5	4,2	2,8	1,6	0,8			
TLCHN 25-8L	270	1,24			2	7,5	6,9	6,1	4,9	3,6	2,4	1,4		
	286	1,25			3	8,0	7,5	6,8	5,8	4,6	3,5	2,5	1,6	
TLCHN 20-10L	283	1,35	8,0	400	1	8,3	6,9	5,0	2,9	1,1				
TLCHN 25-10L	343	1,44			2	9,4	8,7	7,7	6,3	4,7	3,1	1,7		
	357	1,56			3	10,1	9,6	8,8	7,7	6,5	5,2	3,9	2,6	1,6
TLCHN 20-12L	285	1,36	8,0	400	1	7,7	6,5	4,4	2,2	0,7				
TLCHN 25-12L	372	1,69			2	10,3	9,7	8,4	6,9	5,2	3,5	1,8		
	400	1,73			3	12,0	11,4	10,4	9,2	7,8	6,2	4,7	3,2	2,0

Hydraulic performances in compliance with ISO 9906:2012 - Grade 3B (ex ISO 9906:1999 - Annex A)

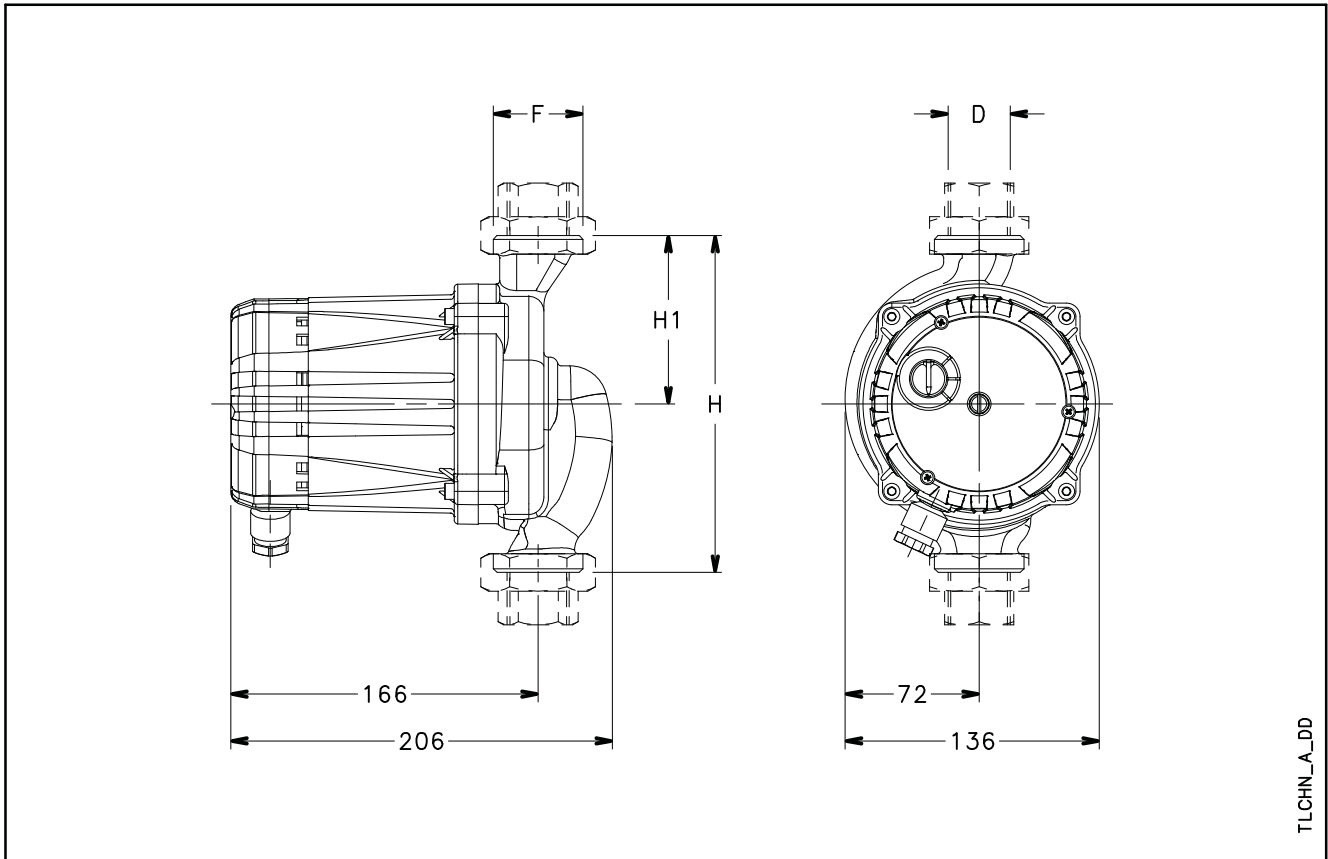
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TLCHN SERIES SINGLE-PHASE OPERATING CHARACTERISTICS



These performances are valid for liquids with density $\rho = 1.0 \text{ Kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.

TLCHN SERIES DIMENSIONS AND WEIGHTS



DIMENSIONS AND WEIGHTS TABLE

PUMP TYPE	DIMENSIONS (mm)					WEIGHT kg
	H	H1	D	F	DN	
TLCHN 20-7L	180	90	¾"	G 1"¼	20	6,5
TLCHN 25-7L	180	90	1"	G 1"½	25	6,5
TLCHN 20-8L	180	90	¾"	G 1"¼	20	6,5
TLCHN 25-8L	180	90	1"	G 1"½	25	6,5
TLCHN 20-10L	180	90	¾"	G 1"¼	20	6,5
TLCHN 25-10L	180	90	1"	G 1"½	25	6,5
TLCHN 20-12L	180	90	¾"	G 1"¼	20	6,5
TLCHN 25-12L	180	90	1"	G 1"½	25	6,5

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